



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

May 29, 2020

Nickie Geros
East Chicago Sanitary District
5201 Indianapolis Blvd
East Chicago, IN 46312
TEL: 219-391-8466
FAX:

RE: #901

Order No.: 20052219

Dear Nickie Geros:

Element Materials Technology - Fort Wayne received 2 sample(s) on 5/22/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Samantha K. Packard'.

Samantha K. Packard
Project Manager
328 Ley Rd.
Fort Wayne, IN 46825



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Analytical Report

(wastewater)

WO#: 20052219

Date Reported 5/29/2020

CLIENT: East Chicago Sanitary District **Collection Date:** 5/21/2020 9:21:00 AM
Project: #901
Lab ID: 20052219-001 **Matrix:** WASTEWATER
Client Sample ID #901
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
CYANIDE AVAILABLE BY LIGAND EXCHANGE				OIA-1677-09		Analyst: AN	
Cyanide, Available	0.30	0.0020		mg/L	1		5/26/2020 1:31:27 PM
OIL AND GREASE, TOTAL				E1664		Analyst: HF	
Oil & Grease, Total	6.1	5.0		mg/L	1	50.0	5/27/2020 12:52:50 PM
SV COMPOUNDS FOR CATEGORICAL RQTS				E625		Analyst: SF	
Bis(2-ethylhexyl)phthalate	< 0.10	0.10		mg/L	10	0.16	5/28/2020 5:27:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	PQL	Practical Quantitation Limit	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



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Analytical Report

(wastewater)

WO#: 20052219

Date Reported 5/29/2020

CLIENT: East Chicago Sanitary District **Collection Date:** 5/21/2020 9:21:00 AM
Project: #901
Lab ID: 20052219-002 **Matrix:** WASTEWATER
Client Sample ID #901
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
FLUORIDE					E300.0		Analyst: HN
Fluoride	1.3	0.5		mg/L	5	2.9	5/22/2020 6:14:00 PM
CHEMICAL OXYGEN DEMAND					M5220 D		Analyst: ANS
Chemical Oxygen Demand	575	10.0		mg/L	1		5/26/2020 10:41:00 AM
AMMONIA AS N					E350.1		Analyst: JGB
Nitrogen, Ammonia (As N)	47.5	1.00		mg/L	10	77.0	5/27/2020 2:23:00 PM
PHENOLICS IN WASTEWATER					E420.1		Analyst: ANS
Phenolics, Total Recoverable	< 0.050	0.050		mg/L	2	0.700	5/26/2020 4:24:16 PM
TOTAL PHOSPHORUS					M4500-P F		Analyst: HN
Total Phosphorus	0.776	0.050		mg/L	1	5.50	5/26/2020 8:00:34 PM
TOTAL SUSPENDED SOLIDS					M2540 D		Analyst: NB
Suspended Solids (Residue, Non-Filterable)	253	31		mg/L	1		5/26/2020 2:24:00 PM
MERCURY					E245.1		Analyst: FJR
Mercury	0.00018	0.00010		mg/L	1		5/28/2020 2:10:48 PM
METALS IN WATER BY ICP-MS, TOTALS					E200.8		Analyst: FJR
Arsenic	0.00800	0.00020		mg/L	1	0.500	5/28/2020 1:00:32 PM
Chromium	0.00849	0.00040		mg/L	1	0.282	5/28/2020 1:00:32 PM
Copper	0.00827	0.00020		mg/L	1	0.301	5/28/2020 1:00:32 PM
Lead	0.00143	0.00020		mg/L	1	0.224	5/28/2020 1:00:32 PM

Qualifiers:
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit



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Analytical Report

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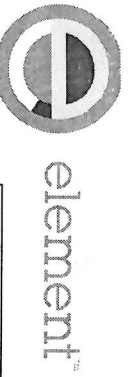
WO#: 20052219

Date Reported 5/29/2020

CLIENT: East Chicago Sanitary District **Collection Date:** 5/21/2020 9:21:00 AM
Project: #901
Lab ID: 20052219-002 **Matrix:** WASTEWATER
Client Sample ID #901
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
METALS IN WATER BY ICP-MS, TOTALS				E200.8	Analyst: FJR		
Molybdenum	0.0359	0.00020		mg/L	1	0.200	5/28/2020 1:00:32 PM
Nickel	0.0109	0.00100		mg/L	1	0.390	5/28/2020 1:00:32 PM
Zinc	0.117	0.00040		mg/L	1	1.48	5/28/2020 1:00:32 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	PQL	Practical Quantitation Limit	RL	Reporting Detection Limit
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Chain of Custody

11.08

Laboratory Number:

20052219

Page 1 of 1

20052219

Client Information:		Billing Information:		PO Number:		Project Name/Number:		Matrix Code	
Company Name: East Chicago Sanitary District		Same				S-901		DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge O = Oil F = Food NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid	
Contact Name: Nickie Geros				Quote Number:		Sampler's Signature			
Address: 5201 Indianapolis Blvd				Required QC Level		Shipping Method:			
City, State Zip: East Chicago IN 46312				Bill Monthly		UPS / Fedex / Airborne			
Phone Number: 219-391-8466		Ext. 240				DHL / Element / Hand / Mail			
Fax Number:				Yes <input type="checkbox"/> No <input type="checkbox"/>					
E-mail Address: ngeros@eastchicago.com									

Which Regulations Apply: <input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC	Turn Time 5 TAT	(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container	Pres.	Requested Tests								Comments			
					Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	CYANIDE 1677	Oil & Grease Total	Bis(2EH) Phthalate	*Metals	NH3, T.PHOS, COD		PHENOL	300:Fl,	TSS
Sample ID/Description	Collection Information															
	Date	Time	Grab / Composite	Matrix												
S-901 Grab	5-21-20	9:21	Grab	WWV	1	P	NAOH	X								
S-901 Grab			Grab	WWV	1	G	H2SO4		X							
S-901 Grab			Grab	WWV	1	G	NONE			X						
S-901 Composite			Comp	WWV	1	P	HNO3				X					
S-901 Composite			Comp	WWV	1	P	H2SO4					X				
S-901 Composite			Comp	WWV	1	G	H2SO4						X			
S-901 Composite			Comp	WWV	2	P	NONE							X	X	
Temp. 24.8°C																
*As, Cr, Cu, Pb, Mo, Ni, Zn, & Hg, <div>Samples Meet Acceptance Policy <div>Yes</div> No</div>																

Samples Meet Acceptance Policy
Yes ☒ No ☐

Temp. 24.82

Relinquished by	Date/Time	Received by	Date/Time	Composite Sampler
W. J. Lee	5-22-20 1:02:20	W. J. Lee	5-22-20 10:20	Start Date/Time: 5-21-20 9:21 End Date/Time: 5-22-20 8:37
W. J. Lee	5-22-20 3:46	W. J. Lee	5-22-20 15:40	Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 3.70

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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